
Exam Review: Unit 4

- Vocabulary

Congruent

Isometric

Nets

Polyhedron

Prisms

Pyramids

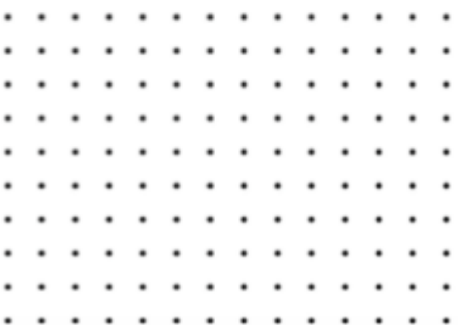
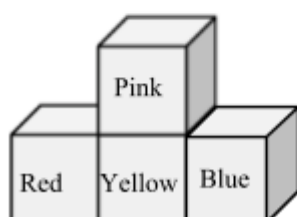
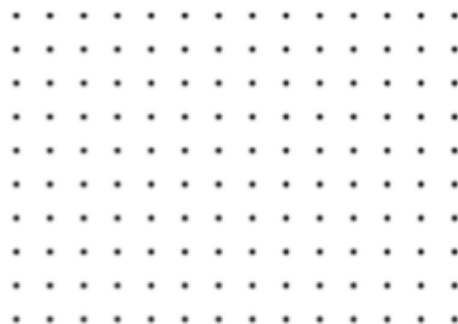
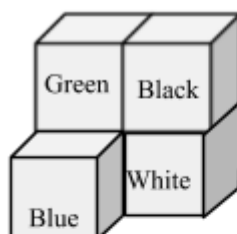
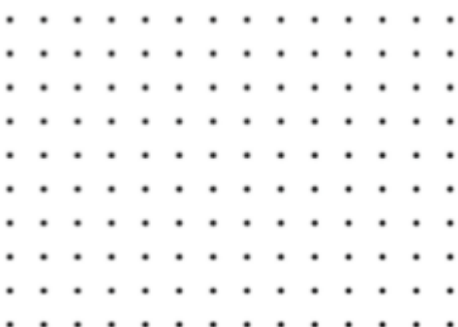
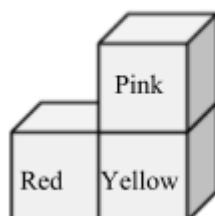
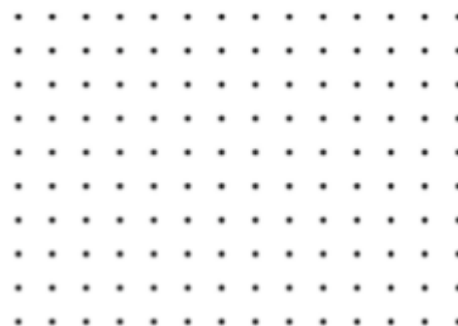
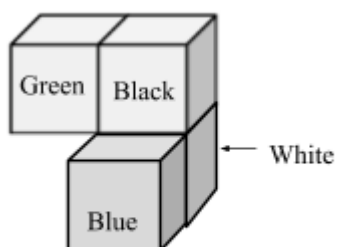
Perimeter

Area

Surface Area

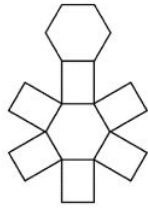
Volume

- Draw a 3-D isometric drawing of the shapes below on an isometric dot paper and then draw the top view front view and the right side view. **[Do not forget to mention colors]**

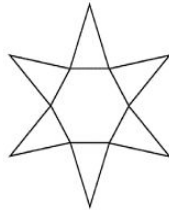


2. For each net below, draw the 3-D shape the net folds to and explain how you obtained each shape.

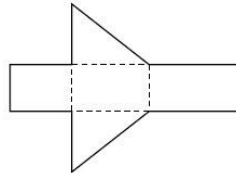
a.



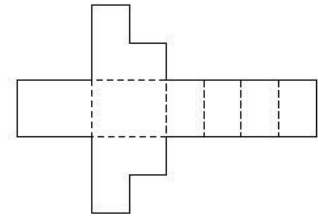
b.



c.



d.



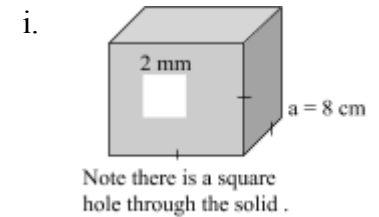
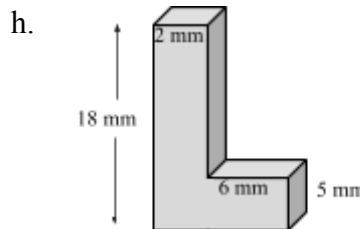
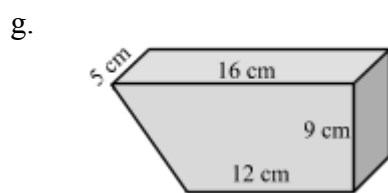
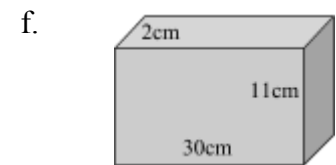
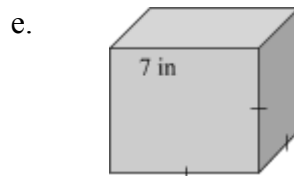
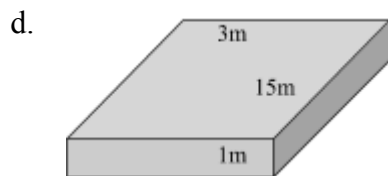
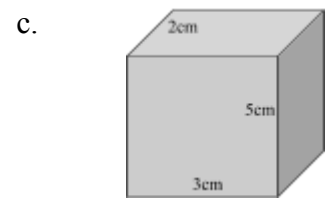
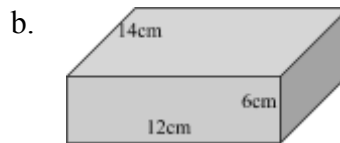
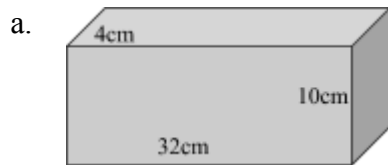
3. Write down an expression for the perimeter P for a rectangle with length L and width W .
4. Write down an expression for the perimeter A for a rectangle with length L and width W .
5. Write down an expression for the perimeter P for a square with side length a .
6. Write down an expression for the area A for a square with side length a .
7. A farm, 25 yards in length and 30 yards in width is to be fenced. Calculate the amount of fencing required.
8. A wall with dimensions 12 ft by 20 ft is to be covered using strips of wallpaper that is 6 ft by 4ft.
- What is the area of the wall?
 - What is the area of each strip?
 - How many wallpaper strips will be required to cover the wall?
9. A square garden farm has area 300 square feet. What is the length of the farm?
10. Find the length of a poster frame that is 30 cm wide and has a perimeter of 124 cm.
11. Find the width of a rectangular postcard of length 6 inches and area 24 inches squared.
12. A T-shaped swimming pool has an area of 52 m^2 . The width of each rectangular piece is 4m.
- Draw a layout for a swimming indicating the possible dimensions.
 - Determine all lengths in the picture.
 - Find the perimeter of the pool.



NAME: _____

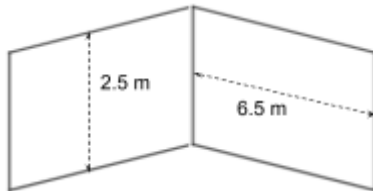
Math 7

13. Find the surface area and volume of the shapes below.



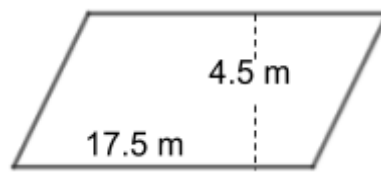
14.

a. Find the cost of painting front and back side of the enclosure shown below.



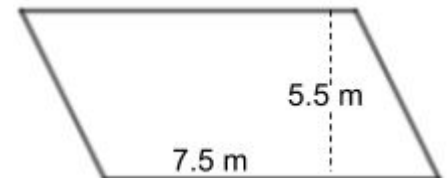
Cost of painting is \$20/m².

b. Find the cost of carpeting a dance floor.

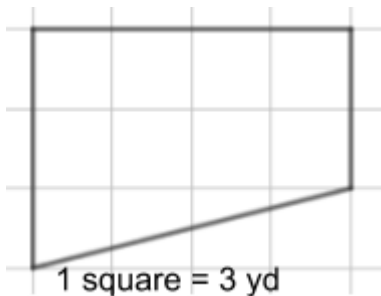


Cost of the material is \$85/m².

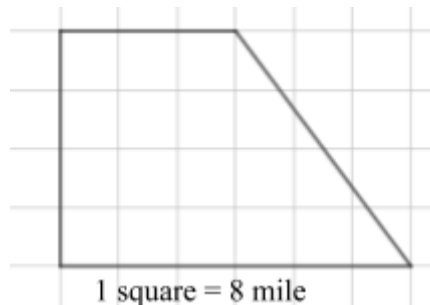
c. The picture below shows a bathroom floor which is being tiled using square tiles of dimensions 4cm. How many tiles will be required?



d.



e.



f.

